

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

priority Application Serial No. ....09/465,492  
priority Filing Date ..... December 16, 1999  
Inventor..... V. Segal  
Assignee..... Honeywell International, Inc.  
priority Group Art Unit..... 1742  
priority Examiner ..... H. Wilkins III  
Attorney's Docket No. ..... 30-5004 div3  
Title: Alloys Formed From Cast Materials Utilizing Equal Channel Angular Extrusion

**PRELIMINARY AMENDMENT**

To: Assistant Commissioner for Patents  
Washington, D.C. 20231

From: David G. Latwesen, Ph.D. (Tel. 509-624-4276; Fax 509-838-3424)  
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Spokane, WA 99201-3828

**AMENDMENTS**

**In the Specification**

Please replace the title with:

-- Alloys Formed From Cast Materials Utilizing Equal Channel Angular Extrusion --.

At p. 1, replace the paragraph starting at line 6, with

--This application is a divisional of U.S. Patent Application Serial No. 09/465,492,  
filed December 16, 1999; which is related to Application No. 09/098,761, filed June 17,  
1998.--

**EL844046674**

**In the Claims**

Please replace the indicated claims with the following clean versions of the claims, in accordance with 37 C.F.R. § 1.121(c)(1)(i). Cancel all previous versions of any pending claim.

A marked up version showing amendments to any claims being changed is provided in one or more accompanying pages separate from this amendment in accordance with 37 C.F.R. § 1.121(c)(1)(ii). Any claim not accompanied by a marked up version has not been changed relative to the immediate prior version, except that marked up versions are not being supplied for any added claim or canceled claim.

**CLAIMS**

Cancel Claims 1-36.

Please add new claims 37-39.

37. (new) An alloy comprising a randomized microstructure and a texture with a substantially uniform grain size; said alloy being produced from a cast material by a method comprising the steps of:

defining equal channel angular extrusion routes for defining predetermined shear planes and crystallographic directions in the alloy;

selecting at least a route from the defined routes for plastically deforming the alloy during equal channel angular extrusion; and

subjecting the alloy to a predetermined number of passes through the selected routes.

38. (new) An alloy comprising a strong texture; said alloy being produced from a cast material by a method comprising the steps of:

defining equal channel angular extrusion routes for defining predetermined shear planes and crystallographic directions in the alloy;

selecting at least a route from the defined routes for plastically deforming the alloy during equal channel angular extrusion; and

subjecting the alloy to a predetermined number of passes through the selected routes.

39. (new) An alloy comprising substantially random textures; said alloy being produced from a cast material by a method comprising the steps of:

defining equal channel angular extrusion routes for defining predetermined shear planes and crystallographic directions in the alloy;

selecting at least a route from the defined routes for plastically deforming the alloy during equal channel angular extrusion; and

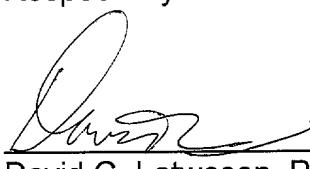
subjecting the alloy to a predetermined number of passes through the selected routes.

**REMARKS**

Claims 1-36 are cancelled; new claims 37-39 are added; and claims 37-39 are pending in the application.

Dated: 7/24/01

Respectfully submitted,

By:   
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VERSION WITH MARKINGS TO SHOW CHANGES MADE ACCOMPANYING  
PRELIMINARY AMENDMENT

In The Specification,

At p. 1, replace the paragraph starting at line 6 is amended as follows (underlines indicate insertions and strikeouts indicate deletions)

--This application is a divisional of U.S. Patent Application Serial No. 09/465,492, filed December 16, 1999; which is related to Application No. 09/098,761, filed June 17, 1998.--

In the Claims

The claims have been amended as follows. Underlines indicate insertions and strikeouts indicate deletions.

Claims 1-36 are cancelled; and new claims 37-39 are added.